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50X1-HUM



UNI - POLAR IMPULSE GENERATOR

MODEL MIN - 2M

_UNI - POLAR IMPULSE GENERATOR MODEL MTW - 2M

Applications and Features.

The uni-polar impulse generator model MTW - 2M is designed for supplying electric-impulse machines with impulse current. This generator can be also used for cutting, plating, welding and other operations requiring intense current.

The proper choice of optimum pulse parameters reduced the wear of metal electrodes of aluminium, aluminium alloys and copper up to 8-20% / 5-6 times less as compared to electric spark machines / and increases production rate while working at continuous duty up to $1500 \, \mathrm{mm}^{5} / \mathrm{min}$ when steels are machined and up to $2200 \, \mathrm{mm}^{5} / \mathrm{min}$ when nimonics are machined. The generator MTW - $2 \, \mathrm{M}$ is especially successful when electrodes are made of special graphitic material $3 \, \mathrm{GeV}$.

The wear of electrodes made of the material $\Im\Im\Gamma$ is reduced to 0,2-1%, that is 40-60 times less than that which available during electric-spark machining.

The generator $M\Gamma M - 2M$ provides stepless adjustment of the power of electric-impulse machines.

The change of generator power is effected by adjusting low current in excitation curcuits.

The generator do not require special maintenance. The life and reliability of the generator $M\Gamma N-2M$ are equivalent to those common direct-current electrical equipment.

- 2 -

Specifications.

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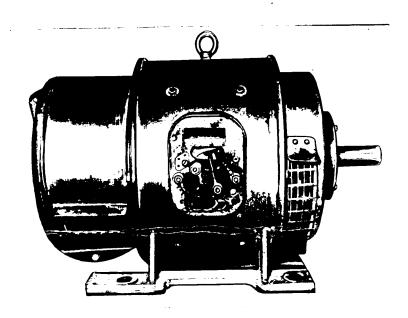


Fig. I. Uni-polar impulse generator M Γ N - 2M.

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UNI - POLAR IMPULSE GENERATOR

MODEL MPH - 3M

.UNI - POLAR IMPULSE GENERATOR MODEL MTN - 3M.

Applications and Features.

The uni-polar impulse generator model MTW - 3M is designed for supplying electric-impulse machines with impulse current.

This generator can be also used for cutting, plating, welding and other operations requiring intense current. The proper choice of optimum pulse parameters reduces the wear of metal electrodes made of aluminium, aluminium alloys and copper up to 8-20% / 5-6 times less as compared to electric spark machines/ and increases production rate while working at continuous duty up to 5000 mm min when steels are machined and to 7000 mm min when nimonics are machined. The generator MTW - 3M is especially successful when electrodes made of special graphitic material app are used at current up to 150 A. The wear of electrodes made of the material is reduced to 0,2-1%, that is 40-60 times less than that which is available during electric-spark machining.

The generator MTW-3Mprovides stepless adjustment of the power of electric-impulse machines. The change of the generator power is effected by adjusting low current in excitation circuits. The generator needs no specially trained operators.

The life and reliability of the generator MTM - 3M are equivalent to those of common direct-current electrical equipment.

- 2 -

Great power potential of the generator MTM - 3M used for supplying the machine model 4723 makes that machine more reliable in operation.

Specification.

Frequency 400imp/sec.
Rated voltage 25 V.
Average current
rated capacity 340 A.
one-hourly load 400 A.
Excitation voltage
Minimum over current resistance 0,02 ohms.
Consumption of power at rated capacity 28kw.
Dimensions / length x width x height / 960mm x 700mm x 600mm
Weight

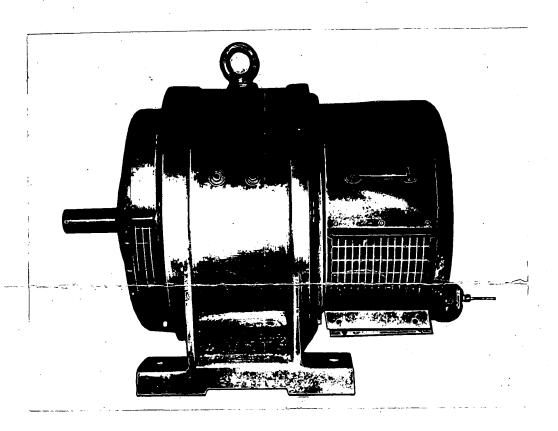


Fig. I. Uni-polar impulse generator MTM - 3M.